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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/045,799	01/10/2002	Erwin Roy John	50124/00303	5663
30636	7590 06/14/2006		EXAMINER	
FAY KAPLUN & MARCIN, LLP			NASSER, ROBERT L	
	OWAY, SUITE 702 K, NY 10038		ART UNIT	PAPER NUMBER
	,		3735	
			DATE MAILED: 06/14/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summary	10/045,799	JOHN ET AL				
Office Action Summary	Examiner	Art Unit				
	Robert L. Nasser	3735				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 04 A	Responsive to communication(s) filed on <u>04 April 2006</u> .					
	action is non-final.					
3) Since this application is in condition for allowar	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E						
Disposition of Claims						
4) Claim(s) <u>45-49,51-55,59,65,66,68 and 69</u> is/ar	e pending in the application					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>45-47</u> is/are allowed.						
6)⊠ Claim(s) <u>48,49,52-55,59,65,66 and 68</u> is/are rejected.						
7) Claim(s) is/are objected to.	,00.00.					
8) Claim(s) are subject to restriction and/o	r election requirement					
and dabject to restriction and/or	cicolon requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
<ul> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> </ul>						
* See the attached detailed Office action for a list  Attachment(s)  Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal Pa	ite atent Application (PTO-152)				

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A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 4/4/2006 has been entered.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 52, 55, and 65 are rejected under 35 U.S.C. 102(b) as being anticipated by Itil et al 5357957. Itil et al shows a connection means, i.e. a headset which includes a headband, mounting eeg electrodes to the body for measuring eeg signals, wireless radio transmitter (column 6, lines 13-26), to transmit the eeg signals to a remote receiver, and a remote receiver which receives the signals and processes them to identify brain function and/or dysfunction (column 1, lines 25-28). In addition, the processing system, connected to the receiver includes an amplifier and a selectively adjustable filter (see column 6, lines 1-30). The examiner notes the features of the processing mention in the first modified embodiment at the top of column 6 are inherently included in the wireless embodiment discussed in the second paragraph of column 6. The system includes an output device, i.e. crt display, for displaying brain function.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 48, 49, 51 and 68 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yasushi et al 5241967 in view of in view of Zimmerman et al 5279305 and Devito. Yasushi et al shows a device with a Lee shows a device with an active electrode 1a, 1b, producing eeg signals, an amplifier 3 amplifying the eeg signals, a selectively adjustable filter 4 (see column 6, lines 7-16) that produces one of the alpha, theta, beta bands or the entire eeg signal, 1-60hz), and a tone generator 14 producing an audio output corresponding to the signal. It does not have the connection means or the telemetry signal. Zimmerman et al teaches that it is desirable to have the electrode arrangement wirelessly communicate with the processor to allow the user freedom of movement during measurement. Hence, it would have been obvious to modify Lee to use wireless communication, so as to allow the patient to move around. In addition, DeVito shows a wireless EEG headband device that includes an amplifier mounted on the headband. It would have been obvious to modify the above combination to use such a headband, as it is merely the substitution of one known equivalent EEG electrode device for another.

Claims 48, 49, 51, and 68 is rejected under 35 U.S.C. 103(a) as being unpatentable over Itil et al. in view of Lee 4454886. As discussed above, Itil teaches all

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of the claim features except for the audible output. Lee teaches that an audible output based on the brain waves is better as it allows the physician to immediately identify changes in the brain wave signals and it is easier to understand than a complex waveform. As such, it would have been obvious to modify Itil to use an audible output, to simplify analysis of the brain waves.

Claim 53 is rejected under 35 U.S.C. 103(a) as being unpatentable over Itil in view of Roy et al 3696808. Itil teaches a generic eeg processing system for monitoring brain function. Roy shows that it is well known in an EEG monitoring system that to detect brain injury and provides an output signal indicating that a brain injury is detected. As such, it would have been obvious to Itil the above combination to provide an output when brain injury is detected, as it is merely the substitution of one known EEG use for another. The examiner notes that any output is a "warning," especially since applicant has provided no limiting definition of the term warning.

Claims 54 and 66 are rejected under 35 U.S.C. 103(a) as being unpatentable over Itil in view of Zimmerman et al 5279305. Zimmerman shows an EEG processing system including a headband with electrodes 23, 24, and 25 including a positive and negative electrode. In addition, it is inherent that there is a ground. Hence, it would have been obvious to modify Itil to use such an electrode arrangement, as it is merely the substitution of one known configuration of electrodes for another. Claim 66 is rejected in that applicant has not stated that the specific number of electrode sand amplifiers is for a specific purpose or that they solve a stated problem. As such, it

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appears that the exact number of electrodes and amplifiers would have been a mere matter of design choice for one skilled in the art.

Claim 59 is rejected under 35 U.S.C. 103(a) as being unpatentable over Itil et al in view of Lee 4454886. Lee teaches that an audible output based on the brain waves is better as it allows the physician to immediately identify changes in the brain wave signals and it is easier to understand than a complex waveform. As such, it would have been obvious to modify Itil to use an audible output, to simplify analysis of the brain waves.

Claim 69 is rejected under 35 U.S.C. 103(a) as being unpatentable over Itil et al in view of Lee 4454886, as applied to claims 48, 49, 512, and 68 above, further in view of John 5287859. John further teaches that split-half rectification is a known processing technique to identify brain dysfunction. As such, it would have been obvious to modify the above combination to use such a technique, as it is merely the substitution of one known equivalent processing technique for another.

Claims 45-47 are allowed. Claims 45-47 define over the art of record in that none of the art compares the F ratio in the presence and absence of stimulation with control data to diagnose injury or dysfunction of the spinal cord, brain stem, or brain, as claimed.

Applicant's arguments filed 4/4/2006 have been fully considered but they are moot in view of the new grounds of rejection.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert L. Nasser whose telephone number is 571 272-4731. The examiner can normally be reached on m-f 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Marmor II can be reached on 571 272-4730. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Robert L. Nasser Primary Examiner Art Unit 3735

RLN June 10, 2006

> ROBERT L NASSER PROMARY EXAMOUR

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